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Ronald Skrdla
Iowa State University

Jean-Luc Jannink
Iowa State University

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Oat Variety Test

Abstract

Thirty-three varieties were included in the 2000 oat test at Lewis. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted March 20 at a rate of 3 bushels/acre. The oat plots were harvested on July 13.

Keywords

Agronomy

Disciplines

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Oat Variety Test

Ron Skrdla, ag research specialist, agronomy
Jean-Luc Jannink, assistant professor, agronomy

Materials and Methods

Thirty-three varieties were included in the 2000 oat test at Lewis. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted March 20 at a rate of 3 bushels/acre. The oat plots were harvested on July 13.

Results

Average oat grain yield at Lewis in 2000 was 80 bushels/acre, 18 bushels/acre less than the average yield in 1999 (Table 1). Based on three years of data (1998-2000), Brawn was the highest yielding variety. Jerry had the highest test weight among hulled (normal) oat varieties in 2000. Paul is a hull-less variety and thus had a higher test weight.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests - Oat and Barley, 1997-2000," which is available from county extension offices (Pm-1645).

Table 1. Performance of oat entries at Lewis from 1998 to 2000.

Entry	Yield			3-yr avg	Heading date ^a	Lodging score ^b	Straw yield ^c	Test wt. ^d
	1998	1999	2000					
	----- bushels/acre-----						ton/acre	lb/bu
Belle	78	97	89	88	6/06	28	3.7	33.4
Blaze	107	108	93	103	6/02	54	3.2	33.7
Brawn	112	120	107	113	6/02	39	3.3	31.5
Burton	91	97	73	87	6/02	43	3.6	31.4
Chaps	104	108	94	102	6/01	43	3.0	32.0
Cherokee	64	69	38	57	5/29	38	3.3	31.1
Classic	96	123	82	100	6/01	42	3.1	33.0
Dane	89	108	86	94	5/26	18	3.2	29.8
Don	99	103	87	96	5/30	58	3.3	34.3
Ebeltoft	.	123	81	103	6/10	35	3.7	31.5
Gem	106	101	96	101	6/05	28	3.3	32.4
IN09201	105	99	90	98	5/30	42	3.1	32.6
Ida	94	89	99	94	6/04	47	3.1	31.7
Jay	103	125	88	106	6/01	35	4.1	34.1
Jerry	86	111	90	96	6/03	49	3.3	35.0
Jim	113	120	86	106	5/31	48	4.0	33.4
Jud	108	94	89	97	6/06	35	3.8	33.1
Killdeer	.	114	88	102	6/06	37	3.7	32.3
Loyal	.	99	80	91	6/07	27	3.4	33.1
Milton	94	104	70	89	6/05	45	3.3	31.7
Multiline E77	59	53	40	50	5/28	48	2.9	31.5
Ogle	108	104	95	102	6/01	46	3.9	30.9
Paul	52	70	52	58	6/09	27	3.7	40.9
Richard	89	93	85	89	6/03	28	3.6	31.4
Richland	48	51	29	43	6/01	56	2.5	29.5
Riser	69	99	64	77	5/24	65	3.1	33.5
Rodeo	120	107	90	106	6/04	38	3.3	31.3
Sheldon	96	93	70	86	5/30	75	3.2	32.4
Starter	84	89	77	83	5/30	65	3.0	33.7
Troy	91	95	85	90	6/09	79	3.6	32.2
Valley	96	89	81	89	6/06	60	3.8	33.3
Vista	93	94	94	93	6/04	44	3.2	32.7
Youngs	.	108	79	95	6/09	36	3.6	31.3
Mean	93	98	80	90	6/03	43	3.4	32.6
LSD(0.05) ^e	12	25	21	13	1	26	0.7	1.3

^a Heading date at Ames, 2000^b Lodging - 1999 average from 5 sites.^c Straw yield - 2000 average from 5 sites.^d Test weight - 2000 average from 5 sites.^e LSD = Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.